

NICHOLAS FREEMAN MEHRLE

3012 N Waterloo Ct Unit 13, Chicago IL, 21218
614-458-8160 | nmehrle@gmail.com | nicholasmehrle.com

EDUCATION

Johns Hopkins University **Baltimore, MD**
M.A. Physics and Astronomy May 2016
B.S. Physics May 2016
– **Additional Majors:** Mathematics & Applied Mathematics and Statistics
– **GPA:** 3.91/4.0

RESEARCH

Cosmology Large Angular Scale Surveyor **Baltimore, MD**
Research Assistant - Department of Physics and Astronomy May 2013 - May 2016
– Design of variable-delay polarization modulator for use in cosmic microwave background signal isolation

CERN **Geneva, Switzerland**
Research Assistant - CMS Experiment Jan - May 2015
– Statistical analysis to discriminate production methods of Higgs boson

EMPLOYMENT

Optiver US LLC **Chicago, IL**
Derivatives Trader July 2016 - Present
– High frequency options trader

Johns Hopkins University **Baltimore, MD**
Teaching Assistant - Department of Mathematics Sept - Dec 2015
– Differential Equations

Johns Hopkins University Applied Physics Lab **Laurel, MD**
Technical Intern - Applied Concepts and Technology Group May - Aug 2014
– Algorithm development, modeling and simulation

Johns Hopkins University **Baltimore, MD**
Tutor - Learning Den Sept 2013 - May 2014
– Newtonian mechanics and electricity and magnetism

PUBLICATIONS

- *CLASS: The Cosmology Large Angular Scale Surveyor*. With Thomas Essinger-Hileman et al. arXiv reference: 1408.4788.
- *The Cosmology Large Angular Scale Surveyor (CLASS): 38 GHz detector array of bolometric polarimeters*. With John W. Appel et al. arXiv reference: 1408.4789.

MISCELLANEOUS

Programming: Python, Java, JavaScript, C, C++, Matlab, Mathematica, R, HTML
CSS, L^AT_EX, VBA

Organizations: Phi Beta Kappa, Sigma Pi Sigma, Wading Team

Testing: Physics GRE - 960/990 (91st percentile)